# APPENDIX

## X

## TABLE 12

GRAPHICAL COMPARISON OP FUELS

Low

High

Blast-furnace gas, No. 2. B.t.u. per cubic foot = 105 107

Calories per $m^3$ =940 955

Weight, kg per $m^3$ = 1.295 = 0.0809 Ib per cubic foot

| Composition Volumetric | Products of Combustion per 100 Volumes of Gas | | | | Percentage Basis (Wet) | | | |
|---|---|---|---|---|---|---|---|---|
| | Air Supply in Percentage of Theoretical Requirements | | | | | | | |
| | 100 % | 120 % | 140 % | 180 % | 100 % | 120 % | 140 % | 180 % |
| H, 2.70 | | | | | | | | |
| $CH_4$ 0.30 | | | | | | | | |
| CO 27.50 | 0.00 | 3.04 | 6.08 | 12.16 | 0.00 | 1.73 | 3.18 | 5.48 |
| $N_2$ 59.00 | 37.80 | 37.80 | 37.80 | 37.80 | 23.49 | 21.46 | 19.75 | 17.05 |
| Total 100.00 | 3.30 | 3.30 | 3.30 | 3.30 | 2.05 | 1.87 | 1.72 | 1.49 |
| Air vols ..... | 119.80 | 131.96 | 144.12 | 168.44 | 74.46 | 74.94 | 75.34 | 75.98 |
| Weight, kg per $m^3$ | 160.90 | 176.10 | 191.30 | 221,70 | | | | |
| Ib per cubic | 76.0 | | | 136.80 | | | | |
| | | | | | Percentage Basis (Dry) | | | |
| | | | | $0_2$ | 0.00 | 1.76 | 3.23 | 5.57 |
| | | | | $CO_2$ | 23.98 | 21.87 | 20.12 | 17.30 |
| | | | | No | 76.02 | 76.37 | 76.62 | 77.13 |